

09812647\_LIST

PLUS Search Results for S/N 09812647, Searched July 23, 2002

4275350  
5644235  
5729142  
6278409  
5823845  
4948288  
4127017  
6053697  
6153959  
4254658  
4585096  
4854168  
5188303  
5190247  
5252872  
5269652  
5436515  
5614779  
6232690  
6097118  
6005320  
5196748  
6201872  
6204589  
6217206  
6217206  
5281004  
5575217  
5593005  
6003954  
6006509  
6234422  
6200116  
4761117  
4854025  
4927331  
6177735  
3922573  
4070137  
4265606  
4406958  
4482830  
4513609  
4575323  
4770609  
4907891

09812647\_LIST

4963041  
4983107  
4987687  
5018947  
5256942  
5319272  
5365133  
5479887  
5610255  
5723926  
5735726  
5779168  
5808390  
5856278  
5952760  
6016098  
6129534  
6166470  
6244816  
5804935  
6005358  
6028402  
4458861  
5386742  
4086498  
4249862  
4260205  
4261175  
4444120  
4514654  
4757209  
4785212  
4862025  
4862028  
4893075  
4909228  
4930201  
4974450  
5242266  
5443768  
5462232  
5518562  
5629567  
5692889  
5841254  
6163121  
6164945  
6212981

09812647\_LIST

6212981  
6331078  
3608681  
3697203  
3679322  
3837676  
3797444  
4252205  
4269584  
4269002  
4273000  
4298842  
RE30847  
4316109  
4363362  
4368028  
4369629  
4370095  
4406586  
4418301  
4434956  
4439108  
4474535  
4510395  
4523893  
4529067  
4553379  
4572121  
4580911  
4790910  
4815573  
4825707  
4832584  
4859153  
4878563  
4886420  
4890699  
4890700  
4914897  
4919211  
4937483  
4994003  
4996888  
5009206  
5022903  
5046465  
5204573  
5205767

09812647\_LIST

5213450  
5241232  
5244531  
5252881  
5261511  
5265348  
5274292  
5296775  
5297460  
5297942  
5321328  
5325715  
5326430  
5343826  
5352305  
5353640  
5372222  
5421221  
5435613  
5435701  
5439081  
5443451  
5471829  
5479771  
5485898  
5496149  
5499496  
5509262  
5559383  
5561602  
5588507  
5588854  
5595058  
5605037  
5607031  
5622052  
5626011  
5630665  
5632140  
5646510  
5664648  
5671827  
5675964  
5743075  
5755566  
5772131  
5784923  
5820504

09812647\_LIST

5842388  
5845727  
5850895  
5860496  
5862892  
5884980  
5890555  
5892342  
5901683  
5915747  
5929610  
5928079  
5927417  
5934382  
5941335  
5944147  
5951251  
5957251  
5963174  
5964083  
5988761  
5992587  
5994801  
5998880  
6002187  
6052985  
6065893  
6106389  
6109615  
6122993  
6132613  
6148940  
6152820  
6182923  
6184678  
6189907  
6190253  
6215199  
6216828  
6215199  
6216828  
6234275  
6241052  
6250474  
6257073  
6257195  
6339301  
6341951

09812647\_LIST

6357561  
6363705  
6368089  
6369476  
6394030  
6401556  
5443438  
4874291  
5677582  
5844342  
5924855  
4252273  
4288199  
4337741  
4557679  
4594632  
4628220  
5301637  
5329197  
5353656  
5415616  
5492448  
5575438  
5645724  
5733253  
5782604  
5885239  
5904355  
6019742  
6024685  
6039711  
6074335  
6099491  
6104111  
3848609  
3806066  
3792937  
4020685  
4073516  
4076340  
4088352  
4252181  
4252503  
4253800  
4257214  
4258246  
4257738  
4262452

09812647\_LIST

4262667  
4263774  
4265472  
4271368  
4273390  
4275552  
4277734  
4277436  
4285904  
4288703  
4296936  
4297078  
4305031  
4306676

09812647\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09812647 on July 23, 2002

- 13 310/114 (3 OR, 10 XR)
  - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
  - 310/10 DYNAMOELECTRIC
  - 310/40R .Rotary
  - 310/114 ..Plural rotary elements
  
- 12 188/218XL (6 OR, 6 XR)
  - Class 188 : BRAKES
  - 188/381 FRICTIONAL VIBRATION DAMPER
  - 188/218R .Brake wheels
  - 188/218XL ..Disk type
  
- 9 57/406 (4 OR, 5 XR)
  - Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING
  - 57/1R APPARATUS AND PROCESSES
  - 57/400 .Open end spinning
  - 57/404 ..Rotating chamber type
  - 57/406 ...With housing for drive or support
  
- 9 188/71.5 (5 OR, 4 XR)
  - Class 188 : BRAKES
  - 188/67 ROD
  - 188/71.1 .Axially movable brake element or housing therefor
  - 188/71.5 ..Plural rotating elements (e.g., "multidisc")
  
- 8 57/409 (3 OR, 5 XR)
  - Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING
  - 57/1R APPARATUS AND PROCESSES
  - 57/400 .Open end spinning
  - 57/404 ..Rotating chamber type
  - 57/408 ...With fiber separating and/or feeding
  - 57/409 ....Plural or variable feed
  
- 8 188/18A (2 OR, 6 XR)
  - Class 188 : BRAKES
  - 188/2R VEHICLE
  - 188/17 .Hub or disk
  - 188/18R ..Motor vehicle
  - 188/18A ...Disc brakes
  
- 8 310/90 (4 OR, 4 XR)



09812647\_CLSTITLES

- Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
 310/10 DYNAMOELECTRIC  
 310/40R .Rotary  
 310/66 ..With other elements  
 310/90 ...Bearing or air-gap adjustment or bearing lubrication
- 7 290/55 (3 OR, 4 XR)  
 Class 290 : PRIME-MOVER DYNAMO PLANTS  
 290/54 FLUID-CURRENT MOTORS  
 290/55 .Wind
- 6 416/134A (4 OR, 2 XR)  
 Class 416 : FLUID REACTION SURFACES  
 416/131 ARTICULATED, RESILIENTLY MOUNTED OR  
 SELF-SHIFTING IMPELLER OR WORKING MEMBER  
 416/134R .Nonmetallic resilient mounting  
 416/134A ..Aircraft rotors
- 5 57/58.49 (0 OR, 5 XR)  
 Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
 57/1R APPARATUS AND PROCESSES  
 57/58.49 .Unitary multiple twist devices
- 5 310/112 (0 OR, 5 XR)  
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
 310/10 DYNAMOELECTRIC  
 310/40R .Rotary  
 310/112 ..Plural units, structurally united
- 5 310/168 (2 OR, 3 XR)  
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
 310/10 DYNAMOELECTRIC  
 310/40R .Rotary  
 310/159 ..A.C.  
 310/166 ...Induction  
 310/168 ....Inductor-type generators (variable reluctance)
- 5 310/42 (1 OR, 4 XR)  
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
 310/10 DYNAMOELECTRIC  
 310/40R .Rotary  
 310/42 ..With assembling, metal casting or machining feature
- 5 310/90.5 (4 OR, 1 XR)  
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE

09812647\_CLSTITLES

310/10 DYNAMOELECTRIC

310/40R .Rotary

310/66 ..With other elements

310/90 ...Bearing or air-gap adjustment or bearing lubrication

310/90.5 ....Magnetic bearing

5 416/141 (2 OR, 3 XR)

Class 416 : FLUID REACTION SURFACES

416/131 ARTICULATED, RESILIENTLY MOUNTED OR SELF-SHIFTING IMPELLER OR WORKING MEMBER

416/141 .Plural articulation

5 418/201.1 (3 OR, 2 XR)

Class 418 : ROTARY EXPANSIBLE CHAMBER DEVICES

418/191 INTERENGAGING ROTATING MEMBERS

418/201.1 .Helical or herringbone

4 57/408 (0 OR, 4 XR)

Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING

57/1R APPARATUS AND PROCESSES

57/400 .Open end spinning

57/404 ..Rotating chamber type

57/408 ...With fiber separating and/or feeding

4 57/413 (2 OR, 2 XR)

Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING

57/1R APPARATUS AND PROCESSES

57/400 .Open end spinning

57/404 ..Rotating chamber type

57/408 ...With fiber separating and/or feeding

57/413 ....With specific rotor feed channel

4 57/58.52 (0 OR, 4 XR)

Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING

57/1R APPARATUS AND PROCESSES

57/58.49 .Unitary multiple twist devices

57/58.52 ..With stranding or plying (e.g., doubling)

4 74/572 (1 OR, 3 XR)

Class 074 : MACHINE ELEMENT OR MECHANISM

74/469 CONTROL LEVER AND LINKAGE SYSTEMS

74/572 .Flywheels and rotors

4 82/1.11 (3 OR, 1 XR)

Class 082 : TURNING

82/1.11 PROCESS OF TURNING

09812647\_CLSTITLES

- 4 82/112 (0 OR, 4 XR)  
     Class 082 : TURNING  
     82/112 PORTABLE LATHE FOR BRAKE DRUM, DISC, OR SHOE
- 4 188/218R (1 OR, 3 XR)  
     Class 188 : BRAKES  
     188/381 FRICTIONAL VIBRATION DAMPER  
     188/218R .Brake wheels
- 4 244/17.11 (0 OR, 4 XR)  
     Class 244 : AERONAUTICS  
     244/4R AIRCRAFT, HEAVIER-THAN-AIR  
     244/17.11 .Helicopter or auto-rotating wing sustained,  
                   i.e., gyroplanes
- 4 310/115 (0 OR, 4 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/114 ..Plural rotary elements  
     310/115 ...Field and armature both rotate
- 4 310/268 (0 OR, 4 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/261 ..Rotor structure  
     310/264 ...Armatures  
     310/268 ....Disc
- 4 310/40MM (1 OR, 3 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/40MM ..Miniature motors
- 4 318/139 (2 OR, 2 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/139 BATTERY-FED MOTOR SYSTEMS
- 4 318/52 (2 OR, 2 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/34 PLURAL, DIVERSE OR DIVERSELY CONTROLLED  
                   ELECTRIC MOTORS  
     318/52 .Slipping and/or racing control for electric  
                   motors
- 4 416/140 (0 OR, 4 XR)

09812647\_CLSTITLES

Class 416 : FLUID REACTION SURFACES  
 416/131 ARTICULATED, RESILIENTLY MOUNTED OR  
 SELF-SHIFTING IMPELLER OR WORKING MEMBER  
 416/140 .Including movement limit stop or damping mean

s

4 418/9 (2 OR, 2 XR)  
 Class 418 : ROTARY EXPANSIBLE CHAMBER DEVICES  
 418/5 MULTISTAGE  
 418/9 .Interengaging rotary members

4 494/26 (1 OR, 3 XR)  
 Class 494 : IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS  
 494/23 WITH MEANS FOR FURNISHING AUXILIARY FLUID TO  
 MATERIAL OR APPARATUS  
 494/26 .Air at atmospheric, or greater, pressure

4 494/47 (0 OR, 4 XR)  
 Class 494 : IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS  
 494/43 ROTATABLE BOWL  
 494/47 .Including means for imparting other movement  
 to bowl in whole or in part before, during

or after its

axial rotation

3 57/59 (0 OR, 3 XR)  
 Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
 57/1R APPARATUS AND PROCESSES  
 57/59 .Delivery twist type

3 57/60 (0 OR, 3 XR)  
 Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
 57/1R APPARATUS AND PROCESSES  
 57/59 .Delivery twist type  
 57/60 ..With twisting couple

3 73/861.77 (1 OR, 2 XR)  
 Class 073 : MEASURING AND TESTING  
 73/861 VOLUME OR RATE OF FLOW  
 73/861.77 .Using rotating member with particular  
 electrical output or circuit

3 180/197 (0 OR, 3 XR)  
 Class 180 : MOTOR VEHICLES  
 180/197 WITH MEANS FOR DETECTING WHEEL SLIP DURING  
 VEHICLE ACCELERATION AND CONTROLLING IT BY

REDUCING

09812647 CLSTITLES  
APPLICATION OF POWER TO WHEEL

3 180/65.6 (1 OR, 2 XR)  
Class 180 : MOTOR VEHICLES  
180/54.1 POWER  
180/65.1 .Electric  
180/65.6 ..With gearing between electric motor and driv  
e  
wheel

3 180/65.7 (1 OR, 2 XR)  
Class 180 : MOTOR VEHICLES  
180/54.1 POWER  
180/65.1 .Electric  
180/65.6 ..With gearing between electric motor and driv  
e  
wheel  
180/65.7 ...Gearing is a changeable ratio gearing

3 188/71.6 (1 OR, 2 XR)  
Class 188 : BRAKES  
188/67 ROD  
188/71.1 .Axially movable brake element or housing  
therefor  
188/71.6 ..With means for cooling brake

3 188/72.4 (1 OR, 2 XR)  
Class 188 : BRAKES  
188/67 ROD  
188/71.1 .Axially movable brake element or housing  
therefor  
188/72.1 ..With means for actuating brake element  
188/72.4 ...By fluid pressure piston

3 188/73.1 (0 OR, 3 XR)  
Class 188 : BRAKES  
188/67 ROD  
188/71.1 .Axially movable brake element or housing  
therefor  
188/73.1 ..Structure of brake element

3 192/107M (0 OR, 3 XR)  
Class 192 : CLUTCHES AND POWER-STOP CONTROL  
192/30R CLUTCHES  
192/107R .Engaging surfaces  
192/107M ..Material

3 210/744 (0 OR, 3 XR)

09812647\_CLSTITLES

Class 210 : LIQUID PURIFICATION OR SEPARATION  
 210/600 PROCESSES  
 210/739 .Including controlling process in response to

a

sensed condition  
 210/744 ..Level sensing

3 290/40C (0 OR, 3 XR)

Class 290 : PRIME-MOVER DYNAMO PLANTS  
 290/7 ELECTRIC CONTROL  
 290/40R .Engine control  
 290/40C ..Control in response to generator and prime  
 mover conditions

3 290/44 (3 OR, 0 XR)

Class 290 : PRIME-MOVER DYNAMO PLANTS  
 290/7 ELECTRIC CONTROL  
 290/43 .Fluid-current motors  
 290/44 ..Wind

3 301/6.1 (3 OR, 0 XR)

Class 301 : LAND VEHICLES: WHEELS AND AXLES  
 301/5.1 WHEEL  
 301/6.1 .With drive or brake attachment

3 310/194 (2 OR, 1 XR)

Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
 310/10 DYNAMOELECTRIC  
 310/40R .Rotary  
 310/179 ..Windings and core structure  
 310/180 ...Field or excitation windings or structure  
 310/194 ....Coil supports and spools

3 310/54 (0 OR, 3 XR)

Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
 310/10 DYNAMOELECTRIC  
 310/40R .Rotary  
 310/52 ..Cooling or fluid contact  
 310/54 ...Liquid coolant

3 310/61 (0 OR, 3 XR)

Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
 310/10 DYNAMOELECTRIC  
 310/40R .Rotary  
 310/52 ..Cooling or fluid contact  
 310/58 ...Circulation  
 310/60R ....Self-forced  
 310/61 .....Rotor passage

09812647\_CLSTITLES

- 3 310/68D (2 OR, 1 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/68R ...Electric circuit elements  
     310/68D ....Conversion elements, (e.g., transformers,  
                     rectifiers, etc.)
- 3 310/74 (1 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/74 ...Inertia or fly-wheel device
- 3 310/87 (0 OR, 3 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/85 ...Mechanical shields or protectors  
     310/87 ....Submersible
- 3 310/89 (1 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/85 ...Mechanical shields or protectors  
     310/89 ....Housings, windows or covers
- 3 310/91 (0 OR, 3 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/91 ...Supports
- 3 324/174 (1 OR, 2 XR)  
     Class 324 : ELECTRICITY: MEASURING AND TESTING  
     324/160 ELECTRICAL SPEED MEASURING  
     324/166 .Including speed-related frequency generator  
     324/173 ..Including magnetic detector  
     324/174 ...Permanent magnet type
- 3 324/321 (3 OR, 0 XR)

09812647 CLSTITLES

- Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/300 PARTICLE PRECESSION RESONANCE  
 324/318 .Spectrometer components  
 324/321 ..Sample holder structure
- 3 415/119 (0 OR, 3 XR)  
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS  
 415/119 WITH SOUND OR VIBRATORY WAVE ABSORBING OR  
 PREVENTING MEANS OR ARRANGEMENT
- 3 416/DIG 4 (0 OR, 3 XR)  
 Class 416 : FLUID REACTION SURFACES  
 416/DIG 4 Fluid current motor and generator
- 3 494/16 (2 OR, 1 XR)  
 Class 494 : IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS  
 494/16 INCLUDING PLURALITY OF MINIATURE BOWLS (E.G.,  
 TEST TUBES) DISTRUBUTED ABOUT ROTATABLE CAR  
 RIER AND READILY  
 REMOVABLE THEREFROM
- 3 494/23 (0 OR, 3 XR)  
 Class 494 : IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS  
 494/23 WITH MEANS FOR FURNISHING AUXILIARY FLUID TO  
 MATERIAL OR APPARATUS
- 3 494/57 (0 OR, 3 XR)  
 Class 494 : IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS  
 494/43 ROTATABLE BOWL  
 494/56 .Including discharge-related structure in  
 trolling quantity nature of (a) outlet having device for con  
 p of material and of flow, (b) element associated with picku  
 (c) static adjustable for varying quality of flow, or  
 in moving bowl scraper or the like for engaging material  
 494/57 ..Element associated with pickup of material  
 and adjustable for varying quality of flow
- 3 604/4.01 (3 OR, 0 XR)  
 Class 604 : SURGERY  
 604/4.01 BLOOD DRAWN AND REPLACED OR TREATED AND  
 RETURNED TO BODY
- 2 29/447 (0 OR, 2 XR)  
 Class 029 : METAL WORKING



09812647 CLSTITLES

29/592	METHOD OF MECHANICAL MANUFACTURE
29/428	.Assembling or joining
29/446	..With prestressing of part
29/447	...By temperature differential (e.g., shrink fit)
2 29/888.023	(0 OR, 2 XR)
Class 029	: METAL WORKING
29/592	METHOD OF MECHANICAL MANUFACTURE
29/888	.Prime mover or fluid pump making
29/888.02	..Fluid pump or compressor making
29/888.023	...Screw or gear type, e.g., Moineau type
2 34/97	(1 OR, 1 XR)
Class 034	: DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS
34/523	APPARATUS
34/96	.For hair on head
34/97	..With gas or vapor flow for contact
2 56/370	(2 OR, 0 XR)
Class 056	: HARVESTERS
56/370	TEDDERS
2 57/263	(0 OR, 2 XR)
Class 057	: TEXTILES: SPINNING, TWISTING, AND TWINING
57/1R	APPARATUS AND PROCESSES
57/261	.Piecing up
57/263	..On open-end machine
2 57/264	(1 OR, 1 XR)
Class 057	: TEXTILES: SPINNING, TWISTING, AND TWINING
57/1R	APPARATUS AND PROCESSES
57/264	.Monitor and control
2 57/400	(2 OR, 0 XR)
Class 057	: TEXTILES: SPINNING, TWISTING, AND TWINING
57/1R	APPARATUS AND PROCESSES
57/400	.Open end spinning
2 57/404	(1 OR, 1 XR)
Class 057	: TEXTILES: SPINNING, TWISTING, AND TWINING
57/1R	APPARATUS AND PROCESSES
57/400	.Open end spinning
57/404	..Rotating chamber type
2 57/411	(0 OR, 2 XR)
Class 057	: TEXTILES: SPINNING, TWISTING, AND TWINING

09812647 CLSTITLES

57/1R APPARATUS AND PROCESSES  
 57/400 .Open end spinning  
 57/404 ..Rotating chamber type  
 57/408 ...With fiber separating and/or feeding  
 57/411 ....With fluid flow controlling or directing

2 57/58.7 (0 OR, 2 XR)  
 Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
 57/1R APPARATUS AND PROCESSES  
 57/58.49 .Unitary multiple twist devices  
 57/58.7 ..With strand feeding means

2 57/58.83 (0 OR, 2 XR)  
 Class 057 : TEXTILES: SPINNING, TWISTING, AND TWINING  
 57/1R APPARATUS AND PROCESSES  
 57/58.49 .Unitary multiple twist devices  
 57/58.83 ..With strand guiding, guarding, or controllin

g

means

2 72/53 (0 OR, 2 XR)  
 Class 072 : METAL DEFORMING  
 72/53 BY SHOT-BLASTING

2 73/261 (2 OR, 0 XR)  
 Class 073 : MEASURING AND TESTING  
 73/861 VOLUME OR RATE OF FLOW  
 73/232 .Expansible chamber  
 73/253 ..Rotary piston or cylinder  
 73/261 ...With interengaging pistons

2 73/462 (2 OR, 0 XR)  
 Class 073 : MEASURING AND TESTING  
 73/66 ROTOR UNBALANCE  
 73/460 .Dynamic (spinning)  
 73/462 ..With electrical sensor and indicator

2 74/5.34 (1 OR, 1 XR)  
 Class 074 : MACHINE ELEMENT OR MECHANISM  
 74/5R GYROSCOPES  
 74/5.34 .Multiple gyroscopes

2 74/5.6D (0 OR, 2 XR)  
 Class 074 : MACHINE ELEMENT OR MECHANISM  
 74/5R GYROSCOPES  
 74/5.6R .With pick off  
 74/5.6D ..Electrical

09812647\_CLSTITLES

- 2 74/5.7 (0 OR, 2 XR)  
 Class 074 : MACHINE ELEMENT OR MECHANISM  
 74/5R GYROSCOPES  
 74/5.7 .With rotor drive
- 2 82/155 (0 OR, 2 XR)  
 Class 082 : TURNING  
 82/117 LATHE  
 82/152 .Attachment  
 82/153 ..Stop (e.g., carriage, tool, work, etc.)  
 82/155 ...Collet or spindle
- 2 82/162 (0 OR, 2 XR)  
 Class 082 : TURNING  
 82/117 LATHE  
 82/162 .Work rest
- 2 105/136 (0 OR, 2 XR)  
 Class 105 : RAILWAY ROLLING STOCK  
 105/133 MOTOR PLACEMENT  
 105/136 .Axle mounting
- 2 123/203 (2 OR, 0 XR)  
 Class 123 : INTERNAL-COMBUSTION ENGINES  
 123/200 ROTARY  
 123/203 .With combusted gas treatment or handling means
- 2 123/236 (0 OR, 2 XR)  
 Class 123 : INTERNAL-COMBUSTION ENGINES  
 123/200 ROTARY  
 123/221 .With transfer means intermediate single  
 compression volume means and single expansion volume means
- 123/234 ..Compression volume means axially disposed  
 relative to expansion volume means  
 123/236 ...Vane
- 2 123/248 (2 OR, 0 XR)  
 Class 123 : INTERNAL-COMBUSTION ENGINES  
 123/200 ROTARY  
 123/247 .Only combustion and expansion of charge in  
 engine  
 123/248 ..Abutment
- 2 180/65.8 (0 OR, 2 XR)

09812647\_CLSTITLES

Class 180 : MOTOR VEHICLES  
 180/54.1 POWER  
 180/65.1 .Electric  
 180/65.8 ..With electronic devices (logic gates,  
 semi-conductors, vacuum tubes, etc.) in con  
 trol circuit

2 188/251A (0 OR, 2 XR)

Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/250R .Shoes  
 188/251R ..Composite  
 188/251A ...Materials

2 188/264A (1 OR, 1 XR)

Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/264R .Cooling and lubricating  
 188/264A ..Air-cooled, axially engaging

2 188/72.5 (0 OR, 2 XR)

Class 188 : BRAKES  
 188/67 ROD  
 188/71.1 .Axially movable brake element or housing  
 therefor  
 188/72.1 ..With means for actuating brake element  
 188/72.4 ...By fluid pressure piston  
 188/72.5 ....Piston for each of plural elements

2 188/73.37 (1 OR, 1 XR)

Class 188 : BRAKES  
 188/67 ROD  
 188/71.1 .Axially movable brake element or housing  
 therefor  
 188/73.31 ..Retainer for brake element  
 188/73.37 ...Having means to prevent vibration of brake  
 element

2 188/73.45 (1 OR, 1 XR)

Class 188 : BRAKES  
 188/67 ROD  
 188/71.1 .Axially movable brake element or housing  
 therefor  
 188/73.31 ..Retainer for brake element  
 188/73.43 ...Including actuator slidable in plane  
 parallel to axis of rotation of wheel  
 188/73.44 ....On axially extending pin  
 188/73.45 .....Plural pins

09812647\_CLSTITLES

- 2 244/17.25 (2 OR, 0 XR)  
     Class 244 : AERONAUTICS  
     244/4R AIRCRAFT, HEAVIER-THAN-AIR  
     244/17.11 .Helicopter or auto-rotating wing sustained,  
                   i.e., gyroplanes  
     244/17.25 ..Lifting rotor having lift direction varying  
                   means
- 2 244/6 (1 OR, 1 XR)  
     Class 244 : AERONAUTICS  
     244/4R AIRCRAFT, HEAVIER-THAN-AIR  
     244/6 .Airplane and helicopter sustained
- 2 290/3 (2 OR, 0 XR)  
     Class 290 : PRIME-MOVER DYNAMO PLANTS  
     290/3 TRAIN
- 2 290/40B (1 OR, 1 XR)  
     Class 290 : PRIME-MOVER DYNAMO PLANTS  
     290/7 ELECTRIC CONTROL  
     290/40R .Engine control  
     290/40B ..Control in response to generator line  
                   conditions
- 2 290/52 (1 OR, 1 XR)  
     Class 290 : PRIME-MOVER DYNAMO PLANTS  
     290/52 TURBOGENERATORS
- 2 290/54 (0 OR, 2 XR)  
     Class 290 : PRIME-MOVER DYNAMO PLANTS  
     290/54 FLUID-CURRENT MOTORS
- 2 301/105.1 (1 OR, 1 XR)  
     Class 301 : LAND VEHICLES: WHEELS AND AXLES  
     301/5.1 WHEEL  
     301/105.1 .Hub
- 2 301/35.623 (0 OR, 2 XR)  
     Class 301 : LAND VEHICLES: WHEELS AND AXLES  
     301/5.1 WHEEL  
     301/9.1 .Detachable wheel section  
     301/35.623 ..Lug nut
- 2 301/6.2 (0 OR, 2 XR)  
     Class 301 : LAND VEHICLES: WHEELS AND AXLES  
     301/5.1 WHEEL  
     301/6.1 .With drive or brake attachment

## 09812647\_CLSTITLES

301/6.2 ..Aircraft wheel

- 2 310/113 (1 OR, 1 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/112 ..Plural units, structurally united  
     310/113 ...Motor-generator sets
- 2 310/152 (0 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/152 ..Permanent magnet machines
- 2 310/198 (2 OR, 0 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/179 ..Windings and core structure  
     310/195 ...Armature or primary  
     310/198 ....Plural windings
- 2 310/257 (0 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/254 ..Stator structure  
     310/257 ...Interfitting or claw-tooth stators
- 2 310/261 (1 OR, 1 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/261 ..Rotor structure
- 2 310/309 (2 OR, 0 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/300 NON-DYNAMOELECTRIC  
     310/308 .Charge accumulating  
     310/309 ..Electrostatic
- 2 310/67R (0 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/67R ...Inbuilt or incorporated unit

09812647\_CLSTITLES

- 2 310/68B (1 OR, 1 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/68R ...Electric circuit elements  
     310/68B ....Condition responsive (e.g., position,  
                     torque, etc.)
- 2 310/71 (0 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/68R ...Electric circuit elements  
     310/71 ....Connectors, terminals or lead-ins
- 2 310/75R (1 OR, 1 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/75R ...Drive mechanism
- 2 310/83 (0 OR, 2 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/66 ..With other elements  
     310/75R ...Drive mechanism  
     310/80 ....Motion conversion  
     310/83 .....Gearing
- 2 318/430 (1 OR, 1 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/430 MOTOR LOAD, ARMATURE CURRENT OR FORCE CONTROL  
                     DURING STARTING AND/OR STOPPING
- 2 318/434 (2 OR, 0 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/434 LIMITATION OF MOTOR LOAD, CURRENT, TORQUE OR  
                     FORCE (E.G., PREVENTING OVERLOAD)
- 2 318/539 (0 OR, 2 XR)  
     Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
     318/538 MOTOR STRUCTURE ADJUSTMENT OR CONTROL  
     318/539 .Both armature and field structures rotatable

09812647\_CLSTITLES  
or adjustable

2 318/71 (0 OR, 2 XR)  
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS  
318/34 PLURAL, DIVERSE OR DIVERSELY CONTROLLED  
ELECTRIC MOTORS  
318/66 .Running-speed control  
318/68 ..Relative motor speed control  
318/69 ...With speed-difference detector  
318/70 ....Electrical-type detectors  
318/71 .....Voltage and/or current difference detecto

r

2 322/14 (0 OR, 2 XR)  
Class 322 : ELECTRICITY: SINGLE GENERATOR SYSTEMS  
322/14 COMBINED CONTROL OF GENERATOR AND DRIVING MEAN

S

2 324/173 (1 OR, 1 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/160 ELECTRICAL SPEED MEASURING  
324/166 .Including speed-related frequency generator  
324/173 ..Including magnetic detector

2 324/322 (0 OR, 2 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/300 PARTICLE PRECESSION RESONANCE  
324/318 .Spectrometer components  
324/322 ..Electronic circuit elements

2 343/705 (0 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/705 .With aircraft

2 366/305 (0 OR, 2 XR)  
Class 366 : AGITATING  
366/241 STIRRER WITHIN STATIONARY MIXING CHAMBER  
366/279 .Rotatable stirrer  
366/302 ..Having cooperating stationary element  
366/305 ...Cylindrical or conical stirrer or element

2 366/331 (0 OR, 2 XR)  
Class 366 : AGITATING  
366/241 STIRRER WITHIN STATIONARY MIXING CHAMBER  
366/279 .Rotatable stirrer



09812647\_CLSTITLES

- 366/331           ..With specified mounting means
- 2   366/98           (2 OR, 0 XR)  
       Class    366 :   AGITATING  
       366/69           RUBBER OR HEAVY PLASTIC WORKING  
       366/96           .Stationary mixing chamber  
       366/97           ..With rotating stirrer  
       366/98           ...Single stirrer
- 2   416/126          (0 OR, 2 XR)  
       Class    416 :   FLUID REACTION SURFACES  
       416/120          PLURAL IMPELLERS HAVING RELATIVE MOVEMENT OR  
                           INDEPENDENT SUPPORTS  
       416/124          .Coaxial rotation  
       416/126          ..Concentric working members
- 2   416/138          (0 OR, 2 XR)  
       Class    416 :   FLUID REACTION SURFACES  
       416/131          ARTICULATED, RESILIENTLY MOUNTED OR  
                           SELF-SHIFTING IMPELLER OR WORKING MEMBER  
       416/135          .Resilient bias or mount  
       416/138          ..With manual control means
- 2   416/19           (0 OR, 2 XR)  
       Class    416 :   FLUID REACTION SURFACES  
       416/19           SINGLE BLADE ROTARY IMPELLER WITH  
                           COUNTERBALANCE
- 2   416/241B         (0 OR, 2 XR)  
       Class    416 :   FLUID REACTION SURFACES  
       416/223R         SPECIFIC BLADE STRUCTURE (E.G., SHAPE,  
                           MATERIAL, ETC.)  
       416/241R         .Coating, specific composition or  
                           characteristic  
       416/241B         ..Ceramic material
- 2   418/194          (2 OR, 0 XR)  
       Class    418 :   ROTARY EXPANSIBLE CHAMBER DEVICES  
       418/191          INTERENGAGING ROTATING MEMBERS  
       418/194          ..Each tapered
- 2   418/201.2        (1 OR, 1 XR)  
       Class    418 :   ROTARY EXPANSIBLE CHAMBER DEVICES  
       418/191          INTERENGAGING ROTATING MEMBERS  
       418/201.1        ..Helical or herringbone  
       418/201.2        ..With valve
- 2   418/222          (0 OR, 2 XR)

09812647 CLSTITLES

Class	418	:	ROTARY EXPANSIBLE CHAMBER DEVICES
418/222			SEPARABLE ABUTMENT
2	418/3		(0 OR, 2 XR)
Class	418	:	ROTARY EXPANSIBLE CHAMBER DEVICES
418/3			DIVERSE ROTARY EXPANSIBLE CHAMBER DEVICES
2	451/290		(0 OR, 2 XR)
Class	451	:	ABRADING
451/64			MACHINE
451/177			.Rotary tool
451/259			..Rotary disk
451/283			...Work rotating
451/285			....Rotary work holder
451/290			.....Disk or wheel abrader
2	451/63		(2 OR, 0 XR)
Class	451	:	ABRADING
451/28			ABRADING PROCESS
451/63			.Side face of disk
2	460/112		(1 OR, 1 XR)
Class	460	:	CROP THRESHING OR SEPARATING
460/111			STRAW CHAFF SPREADER OR HANDLING (DISCHARGE)
460/112			.With chopper
2	460/85		(2 OR, 0 XR)
Class	460	:	CROP THRESHING OR SEPARATING
460/79			SEPARATOR
460/85			.Straw walker
2	494/41		(0 OR, 2 XR)
Class	494	:	IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS
494/38			INCLUDING SEALING MEANS
494/41			.For sealing between stationary and moving elements
2	494/84		(1 OR, 1 XR)
Class	494	:	IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS
494/84			INCLUDING SPECIFIC DEVICE OR STRUCTURE FOR DRIVING OR CONTROLLING BOWL

09812647\_CLS

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09812647 on July 23, 2002

Original Classifications

6	188/218XL
5	188/71.5
4	57/406
4	310/90
4	310/90.5
4	416/134A
3	57/409
3	82/1.11
3	290/44
3	290/55
3	301/6.1
3	310/114
3	324/321
3	418/201.1
3	604/4.01
2	56/370
2	57/400
2	57/413
2	73/261
2	73/462
2	123/203
2	123/248
2	188/18A
2	244/17.25
2	290/3
2	310/168
2	310/194
2	310/198
2	310/309
2	310/68D
2	318/139
2	318/434
2	318/52
2	366/98
2	416/141
2	418/194
2	418/9
2	451/63
2	460/85
2	494/16

Cross-Reference Classifications

10	310/114
----	---------

09812647\_CLS

6 188/18A  
6 188/218XL  
5 57/406  
5 57/409  
5 57/58.49  
5 310/112  
4 57/408  
4 57/58.52  
4 82/112  
4 188/71.5  
4 244/17.11  
4 290/55  
4 310/115  
4 310/268  
4 310/42  
4 310/90  
4 416/140  
4 494/47  
3 57/59  
3 57/60  
3 74/572  
3 180/197  
3 188/218R  
3 188/73.1  
3 192/107M  
3 210/744  
3 290/40C  
3 310/168  
3 310/40MM  
3 310/54  
3 310/61  
3 310/87  
3 310/91  
3 415/119  
3 416/141  
3 416/DIG 4  
3 494/23  
3 494/26  
3 494/57  
2 29/447  
2 29/888.023  
2 57/263  
2 57/411  
2 57/413  
2 57/58.7  
2 57/58.83  
2 72/53  
2 73/861.77

09812647\_CLS

2 74/5.6D  
2 74/5.7  
2 82/155  
2 82/162  
2 105/136  
2 123/236  
2 180/65.6  
2 180/65.7  
2 180/65.8  
2 188/251A  
2 188/71.6  
2 188/72.4  
2 188/72.5  
2 290/54  
2 301/35.623  
2 301/6.2  
2 310/152  
2 310/257  
2 310/67R  
2 310/71  
2 310/74  
2 310/83  
2 310/89  
2 318/139  
2 318/52  
2 318/539  
2 318/71  
2 322/14  
2 324/174  
2 324/322  
2 343/705  
2 366/305  
2 366/331  
2 416/126  
2 416/134A  
2 416/138  
2 416/19  
2 416/241B  
2 418/201.1  
2 418/222  
2 418/3  
2 418/9  
2 451/290  
2 494/41

Combined Classifications

13 310/114  
12 188/218XL

09812647\_CLS

9 57/406  
9 188/71.5  
8 57/409  
8 188/18A  
8 310/90  
7 290/55  
6 416/134A  
5 57/58.49  
5 310/112  
5 310/168  
5 310/42  
5 310/90.5  
5 416/141  
5 418/201.1  
4 57/408  
4 57/413  
4 57/58.52  
4 74/572  
4 82/1.11  
4 82/112  
4 188/218R  
4 244/17.11  
4 310/115  
4 310/268  
4 310/40MM  
4 318/139  
4 318/52  
4 416/140  
4 418/9  
4 494/26  
4 494/47  
3 57/59  
3 57/60  
3 73/861.77  
3 180/197  
3 180/65.6  
3 180/65.7  
3 188/71.6  
3 188/72.4  
3 188/73.1  
3 192/107M  
3 210/744  
3 290/40C  
3 290/44  
3 301/6.1  
3 310/194  
3 310/54  
3 310/61

09812647\_CLS

3 310/68D  
3 310/74  
3 310/87  
3 310/89  
3 310/91  
3 324/174  
3 324/321  
3 415/119  
3 416/DIG 4  
3 494/16  
3 494/23  
3 494/57  
3 604/4.01  
2 29/447  
2 29/888.023  
2 34/97  
2 56/370  
2 57/263  
2 57/264  
2 57/400  
2 57/404  
2 57/411  
2 57/58.7  
2 57/58.83  
2 72/53  
2 73/261  
2 73/462  
2 74/5.34  
2 74/5.6D  
2 74/5.7  
2 82/155  
2 82/162  
2 105/136  
2 123/203  
2 123/236  
2 123/248  
2 180/65.8  
2 188/251A  
2 188/264A  
2 188/72.5  
2 188/73.37  
2 188/73.45  
2 244/17.25  
2 244/6  
2 290/3  
2 290/40B  
2 290/52  
2 290/54

09812647\_CLS

2 301/105.1  
2 301/35.623  
2 301/6.2  
2 310/113  
2 310/152  
2 310/198  
2 310/257  
2 310/261  
2 310/309  
2 310/67R  
2 310/68B  
2 310/71  
2 310/75R  
2 310/83  
2 318/430  
2 318/434  
2 318/539  
2 318/71  
2 322/14  
2 324/173  
2 324/322  
2 343/705  
2 366/305  
2 366/331  
2 366/98  
2 416/126  
2 416/138  
2 416/19  
2 416/241B  
2 418/194  
2 418/201.2  
2 418/222  
2 418/3  
2 451/290  
2 451/63  
2 460/112  
2 460/85  
2 494/41  
2 494/84